

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT			1. CONTRACT ID CODE	PAGE OF PAGES 1 2
AMENDMENT/MODIFICATION NO. 30	3. EFFECTIVE DATE See Block 16C	4. REQUISITION/PURCHASE REQ. NO.	5. PROJECT NO. (If applicable)	
6. ISSUED BY John F. Kennedy Space Center, NASA Procurement Office – OP-OS-ODIN Kennedy Space Center, FL 32899	CODE	7. ADMINISTERED BY (If other than Item 6)	CODE	
8. NAME AND ADDRESS OF CONTRACTOR (No., street, county, State, and Zip Code) OAO Corporation 7375 Executive Place Seabrook MD 20706		(x)	9A. AMENDMENT OF SOLICITATION NO.	
			9B. DATED (SEE ITEM 11)	
			10A. MODIFICATION OF CONTRACT/ORDER NO. NAS5-98144/NNK05OA14D	
			10B. DATED (SEE ITEM 13) December 1, 2004	
CODE	FACILITY CODE			

11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS

[] The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offers [] is extended, [] is not extended. Offers must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended, by one of the following methods: (a) By completing Items 8 and 15, and returning ___ copies of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGEMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by telegram or letter, provided each telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.

12. ACCOUNTING AND APPROPRIATION DATA (If required)

13. THIS ITEM APPLIES ONLY TO MODIFICATIONS OF CONTRACTS/ORDERS. IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.

	A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NO. IN ITEM 10A.
	B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation date, etc.) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(b).
X	C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF: NAS5-98144 Contract Clause C.7 Technology Refreshment Process and FAR Clause 52.212-4 Contract Terms and Conditions-Commercial Items, (c) Changes
	D. OTHER (Specify type of modification and authority)

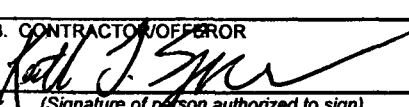
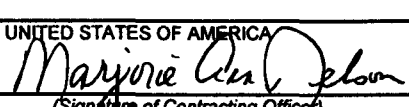
E. IMPORTANT: Contractor [X] is not, [] is required to sign this document and return ___ copies to the issuing office.

14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible.)

KENNEDY SPACE CENTER --- ODIN SERVICES

Continuous Operations Messaging Technology Refreshment (Infrastructure) (\$798,140)

Except as provided herein, all terms and conditions of the document referenced in Item 9A or 10A, as heretofore changed, remains unchanged and in full force and effect.

15A. NAME AND TITLE OF SIGNER (Type or print) Keith L. Spencer Sr. Contract Manager	16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print) Marjorie Ann Nelson Contracting Officer
15B. CONTRACTOR/OFFEROR  (Signature of person authorized to sign)	15C. DATE SIGNED 9/12/2005
16B. UNITED STATES OF AMERICA  (Signature of Contracting Officer)	16C. DATE SIGNED 9/16/2005

NSN 7540-01-152-8070
PREVIOUS EDITION UNUSABLE

30-105

STANDARD FORM 30 (Rev. 10-83)
Prescribed by GSA
FAR (48 CFR) 53.243

1. The purpose of this modification is incorporate Continuous Operations Messaging (COM) technology refreshment as part of this Delivery Order.
2. Under this COM technology refreshment, the contractor shall provided the required services in accordance with the enclosed Statement of Work dated August 31, 2005. The total price is \$1,175,000 for this action but the amount due to the Contractor is reduced to \$798,140 in consideration of credits provided by Glenn Research Center based on reduction of the IMAP requirements (under ODIN Delivery Order NNC04QA20D).
3. In accordance with Master Contract NAS5-98144, C.7, Technology Refreshment Process, the technology refreshment services referenced below is hereby incorporated into this Delivery Order at a fixed price of \$798,140.
4. Part V "Technology Infusion (Infrastructure Upgrades)", Item 3 is modified to include the subject infrastructure upgrades. The signed date and completion date will be completed in a future infrastructure upgrade modification.

Mod	Description	Date Signed	Amount
30	Continuous Operations Messaging (COM)		\$ 798,140

5. Payment Schedule: Invoicing and Payment for this modification will be made in accordance with Master Contract NAS5-98144, FAR 52.212-4: Commercial Items (May 1997) (Modified) in accordance with the following milestone schedule:

Phase	Milestone	Estimated Billing Date	Amount
1	Acceptance of all materials	Nov. 15, 2005	\$505,665
2	Completion of KSC migration to the MSFC site	Jan. 30, 2006	\$ 60,000
3	Completion of SSC migration to the MSFC site	Feb. 15,2006	\$ 32,475
4	Completion of JSC migration to the JSC site	Mar. 30, 2006	N/A
5	Completion of GRC migration to the JSC site	May 1, 2006	\$ 40,000
6	Completion of MSFC & MAF to the MSFC site	Aug. 31, 2006	\$ 50,000
7	Completion of WTSF migration to the JSC site	Sep. 30, 2006	\$ 10,000
	Project Completion	Sep. 30, 2006	\$100,000
	Total		\$798,140

6. Schedule: The estimated completion of this effort shall be 48 weeks after the Preliminary Design Review (PDR). At PDR, the Contractor shall submit a schedule that details the project milestones and completion date for Government approval. This schedule shall be updated on a quarterly basis.
7. In consideration of the modification agreed to herein as complete equitable adjustment for the changes set forth, the Contractor hereby releases the Government from any and all liability under this delivery order for further equitable adjustments attributable to such facts or circumstances giving rise to these changes.
8. All other terms and conditions of this Delivery Order remain unchanged and in full force and effect.

**Continuous Operations Messaging (COM)
Statement of Work (SOW)
Dated: August 31, 2005**

I. SUBJECT

Continuous Operations Messaging (COM) Infrastructure Upgrade

II. PROJECT SUMMARY

This proposal provides Continuous Operations Messaging within the NASA design. The specifics are addressed in the following Scope of Work. Notwithstanding any other specifications in this SOW, LCS is excluded from this SOW.

III. SCOPE OF WORK

3.1. General Requirements –

- 3.1.1 ODIN shall integrate SOMD's and GRC's Microsoft Exchange and Eudora/POP environments for messaging and calendaring using the base architecture established in HEMI.
- 3.1.2 The implementation of Center backup domain controllers within the NDC is not part of this SOW.
- 3.1.3 Until such time NASA's automated account provisioning is available, assumed NLT than 1/1/06, ODIN shall be responsible for the activation of new accounts.
 - a. Creation of NDC disabled user accounts and any local account required
 - b. Provision of COM Exchange accounts
 - c. Activation of new accounts
- 3.1.4 Regardless of this infrastructure upgrade, ODIN shall provide the following services as specified in the appropriate Center Delivery Order:
 - a. Continuation of current X.500 maintenance where ODIN has such responsibilities currently and is part of the current ODIN services. Current support of x.500 does not change as result of this modification.
 - b. Migration of server based user data. (This is applicable to SOMD Delivery Orders only.)
 - c. Reconfiguration of desktop settings in support of the COM project. (This is applicable to SOMD Centers only.)
- 3.1.5 ODIN shall provide internal and external file sharing or distribution.
 - a. Sharepoint services are provided GFE (UNITeS) in the COM environment.
 - b. The Sharepoint CALs under this SOW will only be provided to SOMD and GRC ODIN seats with application software service.
 - c. File sharing and distribution capabilities existing within Office 2003 and Outlook shall be fully supported by ODIN as will integration features with Sharepoint.
- 3.1.6 Preserve all current interfaces between existing ODIN mail systems and non-ODIN mail systems. These Email, calendaring, and directory interfaces assume and require appropriate NDC and non-NDC security settings and network availability. ODIN will identify settings and network availability as they become known.

- 3.1.7 Minimize impacts to Agency and Centers' mission during migration.
 - a. All Exchange-to-Exchange migrations shall be scheduled and transparent to those users given a scheduled activity period outside of normal working hours.
 - b. Eudora and POP migration will involve parallel operations similar to the method used on HEMI at NASA Headquarters.
- 3.1.8 Provide Blackberry messaging services.
- 3.1.9 Following is a list of COM components with a reference to implementation and operational responsibilities between ODIN and other NASA Contractors:
 - a. "Core" components:
 - o Exchange Mailbox Servers -ODIN
 - o SAN (disk drives & tape drives) – ODIN
 - o Backup Server – ODIN (for ODIN managed platforms)
 - b. "Dependent" components:
 - o Center Active Directory - ODIN
 - o Active Directory (COM) – UNITeS
 - o Microsoft Information Identity Server (MIIS) - UNITeS
 - o Barracuda Anti-SPAM appliances - ODIN
 - o F5 Network Load Balancer appliances - ODIN
 - o Virus Perimeter Servers - ODIN
 - o ISA Proxy Servers - UNITeS
 - o Exchange Outlook Web Access Front-End Servers - ODIN
 - o Exchange SMTP Gateway Servers - ODIN
 - c. "Independent" components:
 - o Blackberry Enterprise servers – ODIN (currently UNITeS for MSFC)
 - o Goodlink Servers –UNITeS
- 3.2 System Requirements
 - 3.2.1 Standard inbound and outbound message size limit shall be set to 20MB. This limit only applies to communications external to the COM system.
 - 3.2.2 Standard mailbox default size shall be set to 100MB.
 - 3.2.3 In addition to the current supported levels (basic, regular, enhanced), ODIN shall provide an additional level equal to 10 times basic as an optional service level for ODIN desktop seats.
 - 3.2.4 ODIN will provide a quarterly mailbox size report consistent with such reports being provided for HEMI.
 - 3.2.5 For ODIN-supported wireless devices (e.g., RIM BlackBerry), ODIN shall provide real-time messaging, calendaring, task service, and Outlook mobile access equivalent or better than that provided prior to this Modification.
 - 3.2.6 ODIN shall provide ability for users to remotely access their email via the web using the latest version of Outlook Web Access (OWA) for remote secure (SSL encrypted) web messaging and calendar access; https/rpc, IMAPs, Outlook Mobile Access (OMA), and Webdav for Mac users.
 - 3.2.7 ODIN shall provision for fail-over capability when either site is unavailable for support. Fail-over support shall be provided at two

levels: "dial-tone" restored and full mail-box restoration based on the event. The mail-box restoration shall be performed in incremental levels (e.g., VIP, everyone) and is limited to the capacity of the fail-over systems and available transport mechanisms for moving bulk data. ODIN shall provide failover, availability, and return to service metrics when the following actions are completed:

- a. the JSC and MSFC node sites are operational;
 - b. associated network configuration is established and
 - c. NASA has established increment levels like those noted above.
- 3.2.7.1 NASA and ODIN will jointly define failover scenarios (e.g., hurricane preparedness; fire, etc.) prior to establishing such metrics. The Government's failover support expectations are summarized as follows:
- 3.2.7.1.1 In the event of the failure of either the JSC-NDC or MSFC-NDC the other site will take over the full load of messaging. For example, if JSC-NDC goes down, then the MSFC-NDC will pickup the load of HQ, WSTF, GRC, and JSC messaging.
 - 3.2.7.1.2 The intent is that the first level of restore of function is "dial-tone" restore where users are provisioned with "cold" new mailboxes on the alternate site. This "dialtone" recovery provides the user with messaging service, but without benefit of the old mail in the users "downed" primary site.
 - 3.2.7.1.3 The Government has an additional failover requirement to "transition" executive mailboxes with their full inbox (i.e., mail in the inbox on the primary site will be "moved" to the alternate site dialtone inbox). It is mutually understood that this will be done based on the contingency situation and the time available. If a prime site is shut down immediately and is not expected up for an extended duration, the mailbox information will transition via tape. If the prime site is going to be shut down, such as for a hurricane, the information will be transferred across the network starting at some pre-determined and sufficient time in advance.

3.3 Service Requirements

- 3.3.1 ODIN shall provide full Exchange collaboration features among all users. This includes full calendaring capability with the ability to see other users' calendar entries and the ability to see all SOMD, GRC, and HQ users in the GAL. NASA will specify a uniform default for GAL, calendar and other sharing settings. Users will have the ability to modify folder settings and sharing as they do presently.
- 3.3.2 ODIN shall interface with the existing HEMI GAL to populate the COM GAL with other Centers' (non-SOMD), including NASA contractors', email addresses and locator information. This will be implemented by (and limited to) the existing "One NASA" directory and GAL, managed by NASA, feed to the HEMI GAL.
- 3.3.3 ODIN shall provide the ability for COM users to see the free/busy times for all Exchange users listed on the GAL that are not hosted on the COM System. This will be accomplished using MS Free/Busy connectors based on current supported interfaces such as KSC JBOSC, KSC CAPPS, MSFC NSSTC, etc.

- 3.3.4 NASA will specify any restrictions to attachment size and types allowed to flow through the system and ODIN will implement such restrictions within the capabilities of the system and as directed via the COM CCB process. ODIN shall provide entries in a NASA-specified web site for posting details and workarounds (if available) for all such restrictions and will assist NASA in notifying the user community via the ODIN outreach program.

Mail routing, between JSC and MSFC COM nodes, and the external world (i.e., Internet) will be via SMTP and will typically be provided via standard DNS Mail Exchange (MX) definitions.

- 3.3.5 ODIN shall support full backup and restore services for disaster recovery and for user data recovery. ODIN shall provide Exchange backup and restore services at both the JSC-NDC and the MSFC-NDC. Restore to service shall be the best that is currently specified in existing Center delivery orders prior to this infrastructure modification.

ODIN shall manage the COM system within the constraints of the GFE hardware in order to optimize restoration capabilities. ODIN shall provide the Government nominal individual mailbox and system restoration times once the COM systems and configuration is solidified and operationally stable. The target date for this stability is 6 months post-ORR for the NDC-JSC node.

- 3.3.6 ODIN shall ensure that users will be able to send and receive secure and/or digitally signed (PKI) messages both internal to the integrated system as well as across the Agency. This capability is dependent upon GFE PKI infrastructure and services. This includes existing PKI functionality for Blackberries. Where ODIN is responsible (JSC and KSC currently) for the Blackberry device, ODIN shall provide the required V4.0 client upgrade.
- 3.3.7 ODIN shall not limit the number of distribution lists and custom recipient's objects. ODIN shall establish distribution lists under the NASA Messaging CCB process. ODIN shall work with the appropriate Delivery Order COTR(s) to establish a process for the addition and deletion of distribution lists. Distribution list user/owners will be given authority to populate and modify the distribution lists and ODIN shall no longer report monthly on distribution lists. ODIN shall provision (add, modify, delete) custom recipients at a rate not to exceed 1000 per year and 100 in any given week. ODIN shall provide a "best effort" for any occasion that exceeds this requirement and rate. Neither custom recipients that are part of the migration nor automated/bulk uploads are included in this restriction. The latter assumes submittal of the custom recipient data via mutually-agreed-to import file format.

This rate limit applies to the entire system (aggregate ODIN workload) and will be managed and allocated under NASA Messaging CCB management.

ODIN shall migrate existing custom recipients in the current Center's Exchange system that do NOT conflict with the OneNASA directory feed.

Conflicts between the current custom recipients and the OneNASA directory feed will be identified to the appropriate Center DOCOTR for resolution.

3.4 Process Requirements

- 3.4.1 NASA will provide a common GAL that will be shared across all centers and includes mail addresses and locator data for all agency personnel. ODIN shall also provide the ability for users at each location to change their view to one that contains only their Center's (or any Center's) objects. In order to capture all Agency personnel (including those outside COM), this will be implemented by (and limited to) the existing "One NASA" directory feed to the common GAL.
- 3.4.2 ODIN shall implement object naming convention standards based on the standard defined by the HEMI project, which will be unique and identifiable. Where object renaming to become compliant is necessary, ODIN shall provide the list of affected objects to the appropriate DOCOTR for review and assessment and direction on how to comply with the naming standards where there is no clear translation. The DOCOTR will submit to the NASA Messaging Change Control Board any needed additions or changes to the accepted naming conventions to accommodate local requirements.

Objects may include, but not limited to, the following: conference rooms and other resources, distribution lists, user mailboxes, Center-affiliated generic mailboxes and calendars, and other objects as identified. This includes existing custom recipients; additions, modifications and deletions are discussed above. ODIN shall perform the required translation effort and will support, including outreach, NASA's intent to clearly identify resources, such as the Center where conference rooms are located.

- 3.4.3 ODIN shall support security audits as requested/authorized from the Center DOCOTR or designee. This includes retrieving email from active accounts or archived email by close of the next business day of the request (except where offsite backup resources must be accessed). ODIN shall provide equivalent security investigative support as that provided at the time of this Modification at each Center.
- 3.4.4 ODIN shall perform system logging.
 - a. Message traffic logging shall be enabled and storage allocated appropriately. ODIN shall provide message tracking logging of seven days and archive those logs for thirty days. ODIN shall comply with the log retention within the constraints and capacity of the GFE storage capacity.
 - b. Event logging shall be enabled and storage allocated appropriately.
 - c. Security Event logs shall be maintained in accordance with NPR 2810.
 - d. COM system is considered to be in the "administrative" classification, and under 2810, it is under line manager control which is the current 30 day practice utilizing tape.
 - e. All COM system logs shall be stored in an unfiltered format (i.e., native Microsoft event viewer format).

- 3.4.5 ODIN shall establish fail-over processes for all reasonable failure scenarios. The approach is discussed above (3.2.7) and shall include the range of “dial-tone” to full migration to the alternate site including necessary client modifications.
- 3.4.6 ODIN shall adopt a consolidated COM infrastructure security posture raised to the highest level required of the Centers consolidated under COM. A necessary prerequisite for this consolidated posture is NASA establishing a single COM authority for approving patching and related changes via the CCB process.
- 3.4.7 ODIN shall establish COM security processes which ensure that systems under ODIN management at each Exchange server site and participating Centers will comply with NASA security requirements (NPR 2810 and associated NITRs) as they have for current Email and Exchange operations. ODIN shall contribute all necessary information within the scope of its responsibilities to NASA’s creation of specific additional IT Security Plans driven by COM (e.g., NDC).

The following NITRs are applicable to the work performed under this infrastructure upgrade:

- a. NITR-2810-1
- b. NITR-2810-2
- c. NITR-2810-3
- d. NITR-2810-4
- e. NITR-2810-5

Future changes to security requirements will follow established procedures, which include an opportunity for ODIN to provide assessment of impact and possible costs. ODIN shall be guided by NPR 2810 for all future security requirements until formally directed to follow guidance other than NPR 2810. ODIN shall contribute appropriately for LMIT-responsible elements of COM to the development of the Government’s IT Security Plan for COM.

- 3.4.8 ODIN shall establish and maintain MOUs for existing interface points to the COM system. Specifically:
 - a. The ODIN HELP Desk MOU with UNITeS (and ISEM) including all NISN-ODIN Helpdesk interfaces (processes, systems, etc.)
 - b. The NDC Operations MOU with UNITeS
 - c. Existing NASA operational agreements and obligations under current delivery orders.
 - d. NASA site-to-site agreements, if a copy has been provided to ODIN prior to July 1, 2005.
- 3.4.9 ODIN shall establish SLAs to define all service level expectations. The performance metrics under COM shall be four hour restore to service for the infrastructure. For all other SLA’s, the best of those existing SLAs for equivalent systems at affected Centers will be applicable to this project. These specific contracts SLA’s (availability, service delivery, and customer satisfaction) shall be compiled and recommendations provided 6 months after all JSC users are migrated to the JSC-NDC COM node.

- 3.4.10 ODIN shall define the system restoration and data recovery processes, including time to implement. ODIN shall provide the draft processes for Government review and concurrence at the CDR and final at the ORR.
- 3.4.11 ODIN shall provide appropriate monitoring of systems and devices under ODIN management. Any NASA required details on the ODIN processes and/or procedures for monitoring performance shall be included in the "services design" that will be provided at Critical Design Review (CDR) meeting.

3.5 Government Provided Hardware and Software

ODIN understands that all the Government provided hardware and software, such as installed spares and data on the COM system, shall be remain Government property and not included in the asset transition value.

- 3.5.1 NASA will provide all hardware for implementation and support of the COM project. This equipment is understood to be a combination of newly procured, with 5-year maintenance period, as well as re-provisioned hardware from existing Exchange systems at the Centers.
 - a. The Government provided COM hardware, both acquired and reused, will be managed under the Government property provisions in the appropriate Center ODIN Delivery Orders.
 - b. Hardware currently under maintenance by ODIN shall be continued at no additional cost for the life of the current delivery orders or the timeframe corresponding to the OEM's agreement to provide the level of maintenance required for ODIN to meet its SLA's.
 - c. Hardware storage at each site (JSC-NDC & MSFC-NDC) for COM will be at least 20 Terabytes (raw) space.
 - d. ODIN shall update the initial gap analysis at PDR for disposition. Where additional acquisition is required, the ODIN catalog will be made available as an optional acquisition source.
 - e. NASA will make the newly acquired hardware available at the appropriate site (JSC or MSFC) within ten (10) days from the date of this modification.
 - f. ODIN shall be responsible for the preparation and shipping of the re-used equipment from JSC to MSFC.
- 3.5.2 NASA will provide an initial quantity of 400 LTO-2 tapes for use with the SAN storage based on current 8-week tape retention and rotation. ODIN shall provide additional or replacement tapes, as needed.
- 3.5.3 NASA will make an (excess) Exchange server available at JSC for the Contractor to keep configured with current Exchange 5.5 setup for purposes of restoring from backup. NASA will make available an existing Exchange server and tape drive at each of JSC, WSTF, MSFC and SSC until such time as existing tape rotation and retention in use at each of these Centers is no longer necessary.
- 3.5.4 NASA will provide the following software licenses:
 - NetIQ Application Manager
 - NetIQ Security Manager
 - Veritas Backup Executive Windows, Servers
 - Verisign Certificates

3.6 Contractor Provided Equipment

- 3.6.1 Unless otherwise identified in this SOW, ODIN shall provide the required software licenses for the new servers that are provided as GFE for the COM system.
- a. All client and server licensing available under the existing seat pricing will continue to be provided (no additional cost) in the COM environment.
 - b. The client licenses - Office 2003 (PCs); Office 2004 (Macintosh) and CALs (client access licenses) for ODIN seats defined to include ODIN application software.
 - c. All SOMD seats provided COM Exchange accounts which are not ODIN seats (including ODIN Email "seats") are full client licensed by NASA or the employer of those non-ODIN accounts.
- 3.6.2 ODIN-provided software products and licenses are enumerated in Attachment 1 and include the Windows OS for all servers, Microsoft (MS) Exchange for all mail servers, Veritas BackupExec, and Quest for all systems. ODIN will maintain all certificates originally acquired by ODIN and in ODIN managed systems. All other certificates are assumed to be GFE. The following is a list of certificates meeting this criteria that ODIN will maintain through a five year period that began with the individual date of acquisition.

Server	Certificate name	Certificate Type	Location
NDJSXFE01	mail01.ndc.nasa.gov	Valid Digital ID Class 3 - Hardware Secured SSL ID	JSC
NDJSXFE02	mail01.ndc.nasa.gov	Valid Digital ID Class 3 - Hardware Secured SSL ID	JSC

- 3.6.3 ODIN will migrate the current licensing for the Blackberry services to the COM system and will continue to provide services for new blackberry requirements in accordance with existing seat delivery order specifications at each Center.

3.7 Installation and Integration

- 3.7.1 ODIN shall provide all the resources necessary to install the GFE, integrate, test, operate and maintain the COM system components under ODIN management.
- a. Desktop software refresh required under COM is already built into the desktop seat prices at each site and will be included at no cost.
 - i. ODIN shall complete the software refresh for PC (Office 2003) and Macintosh (Office 2004), as well as, application of the RPC hot fix to ODIN provided/ managed systems ahead of or in concert with the COM project.
 - ii. Entrust 7.0 upgrades are not an ODIN responsibility and not included in this IUP.
 - b. Server software refresh is built into existing seat pricing for Exchange 2003 "back office" and is included at no cost.
- 3.7.2 ODIN shall develop and present all required presentations affecting the COM Project. This includes but is not limited to the PDR, CDR, JSC ORR, MSFC ORR, and a Center ORR or Migration Readiness Review (MRR) for each affected Center. The scope of ODIN content at these reviews is set forth in Attachment 2. ODIN shall provide all necessary information and effort required for NASA to review and approve progress as well as

reasonable “dry run” presentations and travel to existing NASA sites for these reviews.

- 3.7.3 ODIN shall provide “differences” training for the SOMD users. If made available by NASA, ODIN shall re-use existing training materials previously developed by NASA Headquarters.

3.8 Schedule/Phasing

- 3.8.1 NASA has specified a phased implementation of the COM Project. Under this phasing, new equipment will be installed and “married” to the existing infrastructure at the JSC-NDC; then JSC users will be migrated to it. Once the JSC portion of this migration is complete and the COM system at JSC-NDC is operational, ODIN shall transfer the JSC equipment identified for reuse to MSFC for implementation along with the new GFE hardware for that site.

- 3.8.2 Major Milestones - A detailed schedule shall be provided not later than the PDR. A T+ schedule shall be provided, including a statement regarding impacts resulting from flight freeze schedules.

- 3.9 Metrics and Reports - ODIN shall provide metrics and reports equivalent to those provided today to each SOMD Center for Exchange services. This will include, but not limited to, the following:

- 3.9.1 Monthly operating status reports
- 3.9.2 System performance reports

IV. DELIVERABLES

The end item deliverables for Continuous Operating Messaging (COM), including all clients as well as JSC & MSFC Hub projects, encompass project management, engineering, coordination/scheduling, configuration records maintenance and updates, software and equipment installation, software and equipment deletion, and system checkout. Once baselined at the CDR, any and all changes to the project design or implementation require the approval of both OAO/ODIN and NASA.

Attachments

- Software to be provided by contractor (1 page)
- COM Project Review Requirements (2 pages)

SOFTWARE TO BE PROVIDED BY CONTRACTOR**QTY****DATE: August 31, 2005**

Microsoft Core CALs (Windows Server, Exchange Server, Sharepoint Server, SMS Server) (5-year Maintenance)	27,264
Windows Internet Security and Acceleration Server Enterprise Edition under LMIT MS VLA (8 Processors) (5-year Maintenance)	8
Windows Internet Security and Acceleration Server Enterprise Edition (8 Additional Processors) (5-year Maintenance)	8
Windows Server 2003 Standard Edition (5-year Maintenance.)	18
Windows Server 2003 Enterprise Edition (5-year Maintenance)	28
Microsoft Exchange Server 2003 Enterprise Edition	34
TrendMicro (to bring VirusWall, Scanmail, & Server Protect coverage up to 31.100 users) (Acquisition)	1
TrendMicro Maintenance (5 yr Maintenance)	1
Veritas Backup Exec for Windows Servers Agent for MS Exchange Server (5-year Maintenance)	28
Veritas Backup Exec Media Kit (5-year Maintenance)	2
Veritas Backup Exec Win Adv Open File V10	4
Quest Exchange Migration Wizard for Exchange 5.5	15,450
Quest Migration Manager for Exchange 2000/2003	10,650
Legato - Exchange	1
Symantec Mail Security for Exchange	1

COM Project Review Requirements
Dated: August 31, 2005

COM Project Preliminary Design Review (PDR)

Location - JSC

Scope of Briefing

System's major requirements

Functional requirements

External infrastructure identified

System's architecture

Operations concept

System M&O

SLAs (end-to-end)

Cost – total cost (Hurricane and GRC funds)

Planned

Scope (what the funds pay for, high level)

Master schedule status

Major milestones completed

Major milestones in the next 30, 60 and 90 days

Project completion

Major risk or issues and the current status or mitigation

Project documentation overview

MOUs, Project Plan, Security Plan, EAR, etc.

COM Project Critical Design Review (CDR)

Location - JSC

Scope of Briefing

System's major requirements (final)

Detailed system's architecture (final)

Operations concept

System M&O

SLAs (end-to-end)

Cost – total cost (Hurricane and GRC funds)

Planned and Actuals (ODIN shall provide percentage of work completed compared with scheduled milestones)

Master schedule status

Major milestones completed

Major milestones in the next 30, 60 and 90 days

Project completion

Major risk or issues and the current status or mitigation

Project documentation overview

MOUs, Project Plan, Security Plan, EAR, etc.

Operational Readiness Review 1 – JSC NDC System (ORR1)

Location - JSC

Scope of Briefing

System Operational Status

System implementation and configuration

Verification and validation testing overview

Pilot operations completed

System Operational Documentation

- User Training and Awareness
- User Migration schedule

Operational Readiness Review 2 – MSFC NDC System (ORR2)

- Location - MSFC

- Scope of Briefing

- System Operational Status

- System implementation and configuration

- Verification and validation testing overview

- Pilot operations completed

- System Operational Documentation

- User Training and Awareness

- User Migration schedule

Operational Readiness Review (ORR) at Centers

- Location – Center specific

- Scope of Briefing

- System Operational Status

- System implementation and configuration

- Verification and validation testing overview

- User Training and Awareness

- User Migration schedule

- IT Security

- Plan approved

- Impacts to center firewall

- Support staff identified

- Backup/Recovery Plan

- Known Issues/Work Remaining